

# **PHENIX WEEKLY PLANNING**

12/6/2007

Don Lynch

# Run 8 Task Schedule

<u>Item</u>	<u>Start</u>	<u>Finish</u>
RPC Tent preparation (see slides)	On Going	On Going
<del>Install bus house UPS's</del>	<del>12/5</del>	<del>12/10</del>
<b>Start-of-run party</b>	<b>12/7</b>	<b>12/7</b>
Next scheduled Maint. Day	12/19	12/19
Install new UPS	~2/2	~2/9
Switch to p+p run	~2/2	~2/9
Complete new beampipe design	2/29	2/29
Install HBD West for test run	~4/1	~4/1
End of Run 8 (less than 6 mos away)	5/27	5/27

Technical Support + 2007

# Yesterday's Maintenance Access

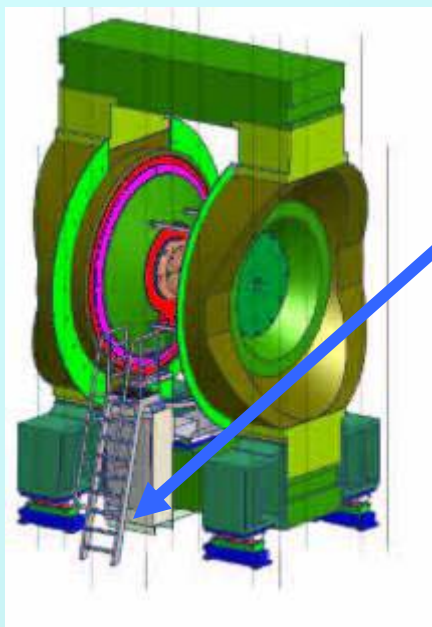
Mostly Subsystem troubleshooting and maintenance

No major tasks/efforts undertaken.

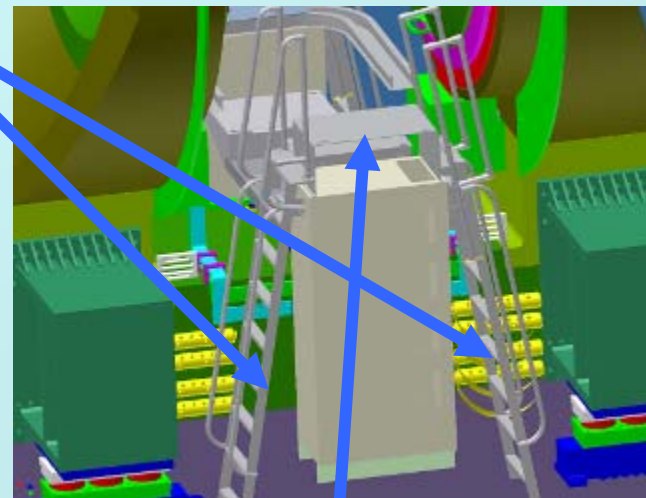
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# CM Ladder/Stair Shutdown Access

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These ladders rec'd



Top of stair landing in shop,  
expect ~ 2weeks

Field fit components during next  
few maintenance accesses; install  
on west during end of d-Au run  
access

# RPC Factory





# RPC Factory Issues, cont.

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Electrical - Mike R. finishing CAD's dirty work to get it running.

Safety systems - Need to install safety control rack, need to install gas lines to sniff. Need "mini blue sheet" review/checkout. Can continue system checkout with manual/portable safety monitoring??

Equipment - Need specs for rolling rotating cart; gap, module and  $\frac{1}{2}$  octant storage racks, then need to fabricate assemble and install.

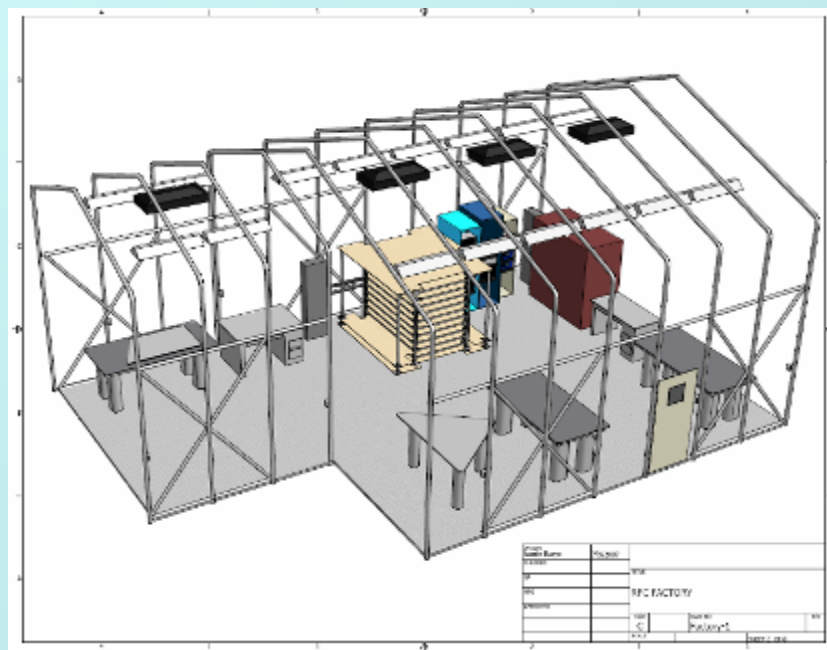
Work plan - Gas procedure approved. Add to work plan book. As soon as safety system interlocks are installed, operational and "blue sheeted", prototype testing may begin. Production operations require work plan update to include factory gas operation and final assembly/test procedures.

Security -RPC group to review C-A policy (3 tier requirement as required by C-A procedure 1.20) RPC group will prepare a one page description of how they intend to comply with this requirement. This will be reviewed by C-A.



## Remaining Action Items from C-A safety review:

- Gas monitoring equipment to be calibrated and tested per BNL requirements
  - Equipment is manufacturer calibrated. Will be tested with mini “blue sheet” check out.
- Max flow rates incl. chambers in storage for all gases to be forwarded to M. van Essendelft – still needs to be done before factory startup
- Approved security apparatus to protect against theft – see above



# RPC & MuTrigger FEE Project Status

TEST-AREA-SUPPORT+NOO7



Above MMN  
north of bridge

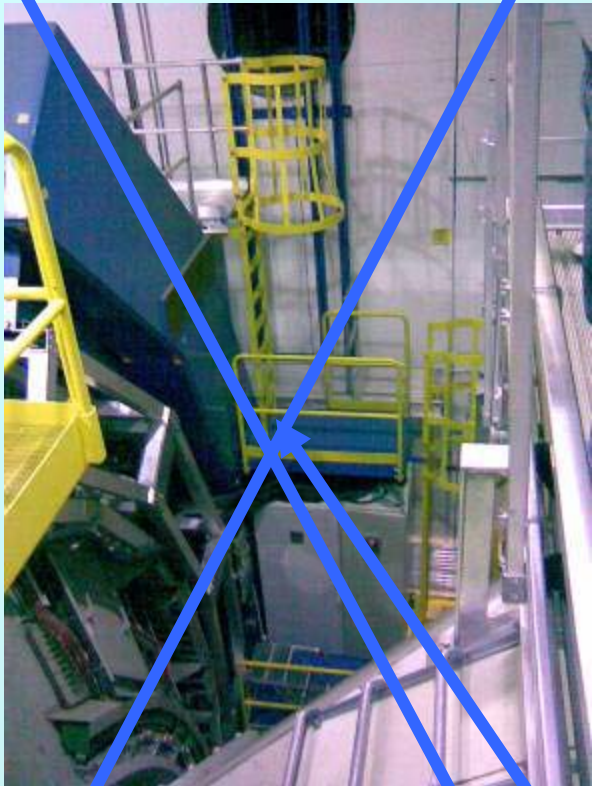


West of MMN, north of TOFW racks  
Some North potential locations for FEE rack



# RPC & MuTrigger Cont'd

TECHNICAL SUPPORT 2007



Other potential locations

Above TOFW north racks



Above North MuID steel (probably better for an RPC rack there)

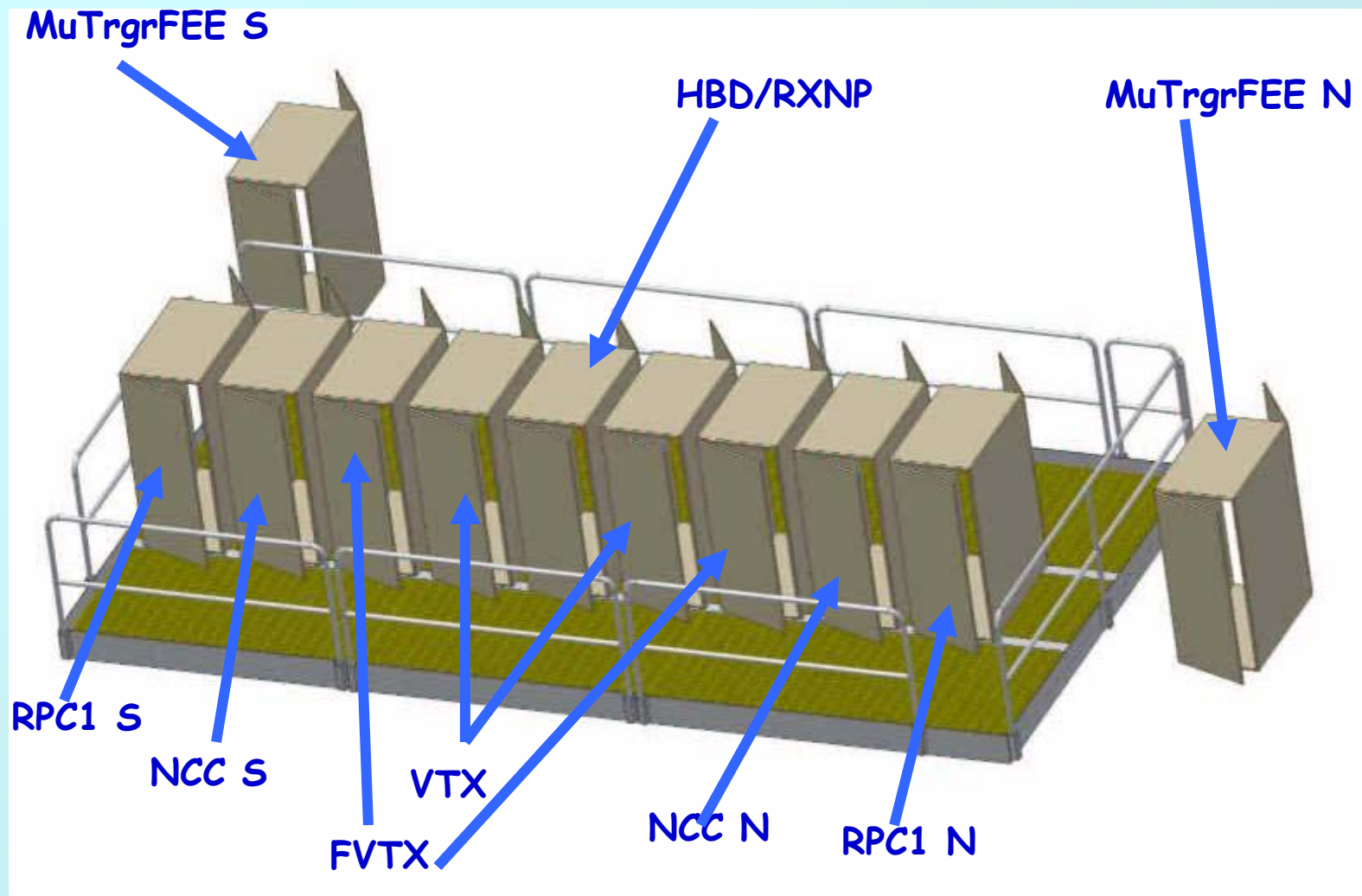
# RPC & MuTrigger Cont'd

TECHNICAL SUPPORT 2007



On the south side above the MMS upper bias lampshade there is space. Interferences with removing lampshades on west side of MMS and moving MMS east-west for maintenance need to be dealt with

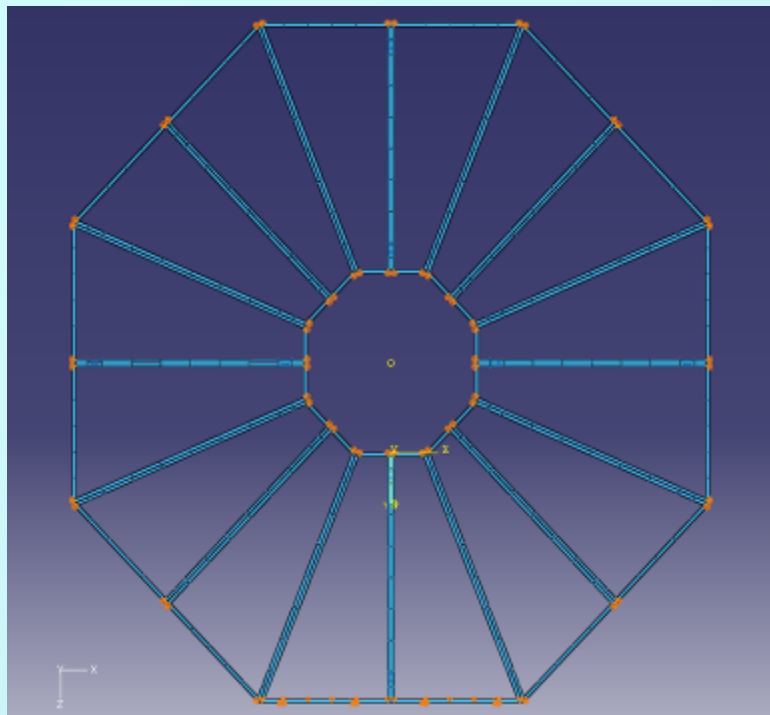
# RPC & MuTrigger Cont'd



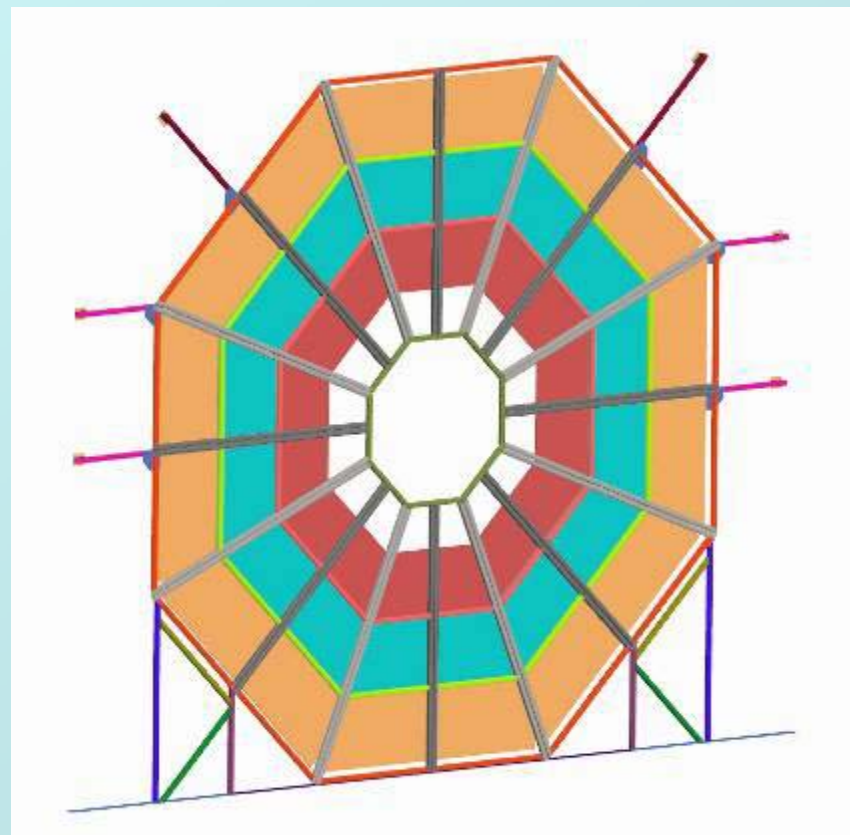


# RPC & MuTrigger Cont'd

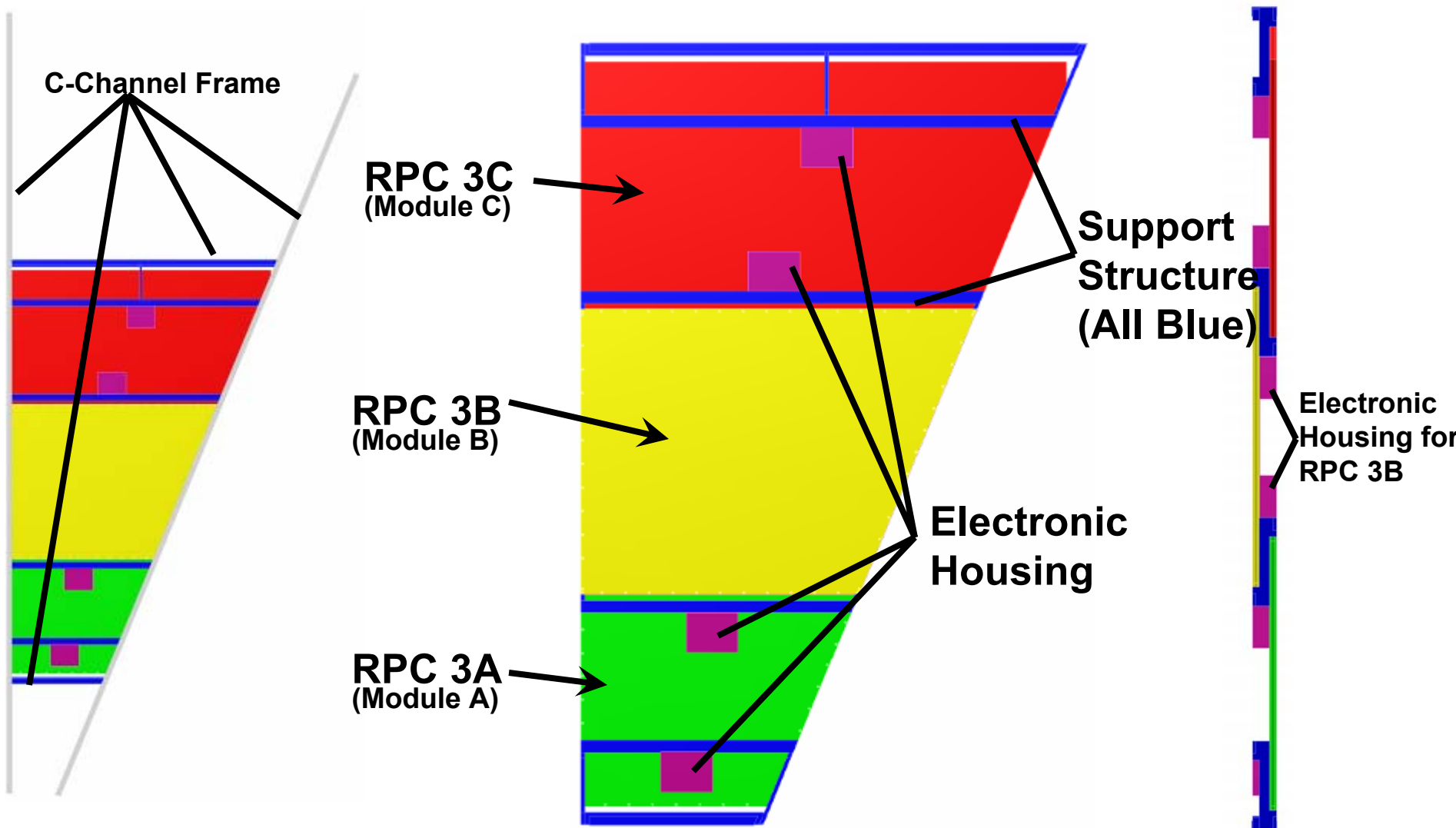
TECHNICAL SUPPORT + 2007



L. Bartoszek continuing to work on Support structure. FEA model above, Original concept at right.

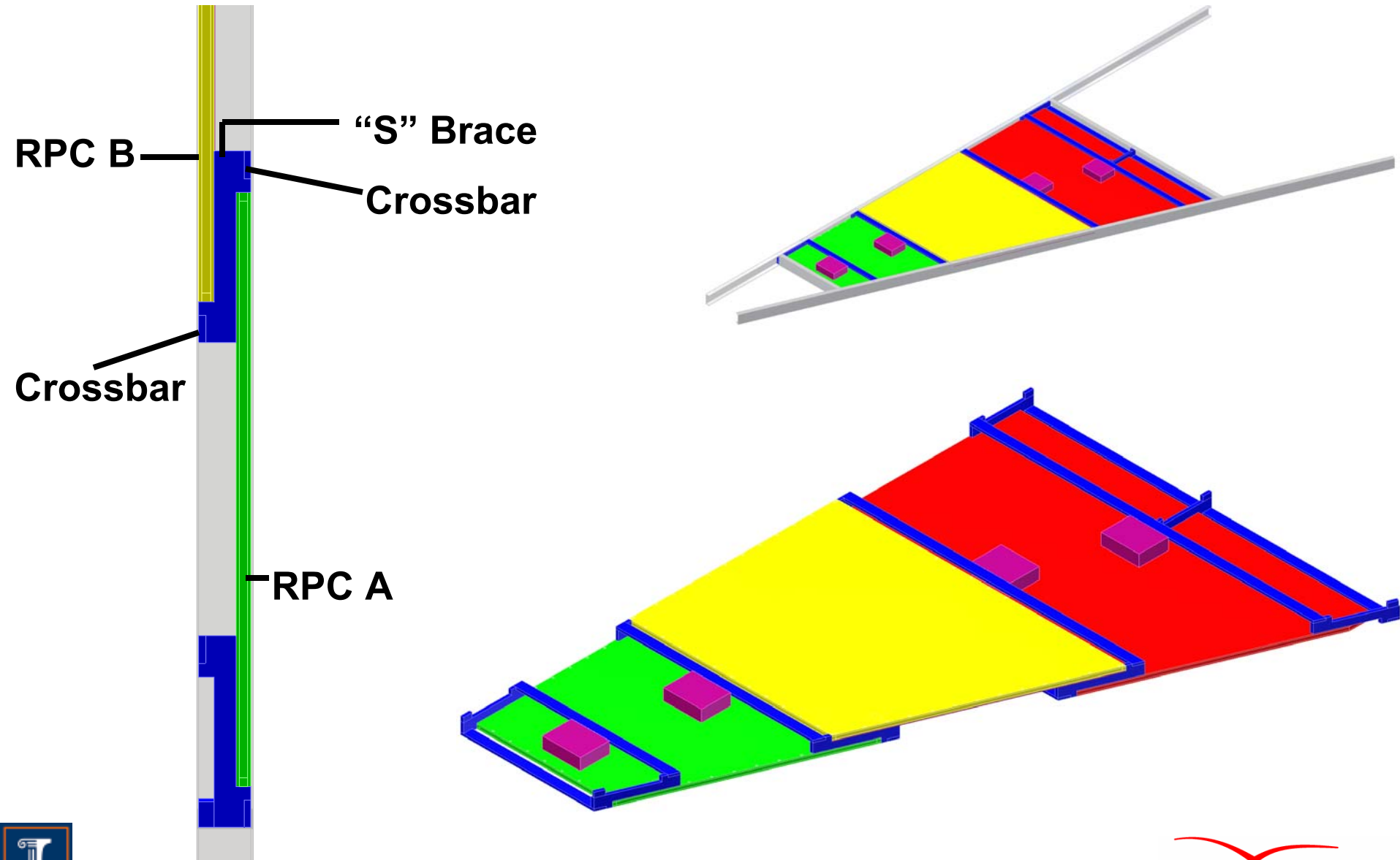


# RPC3 Half Octant





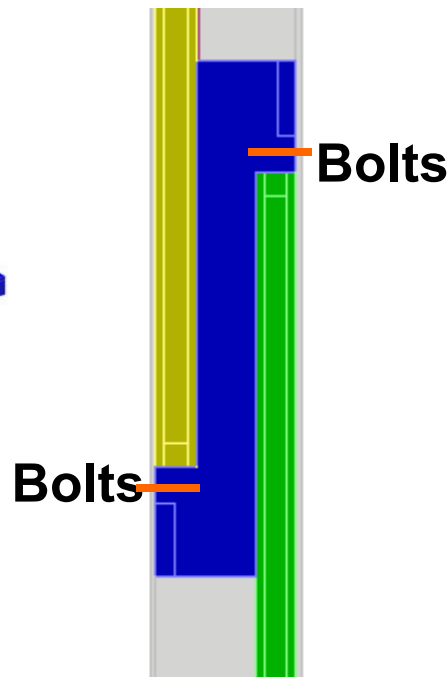
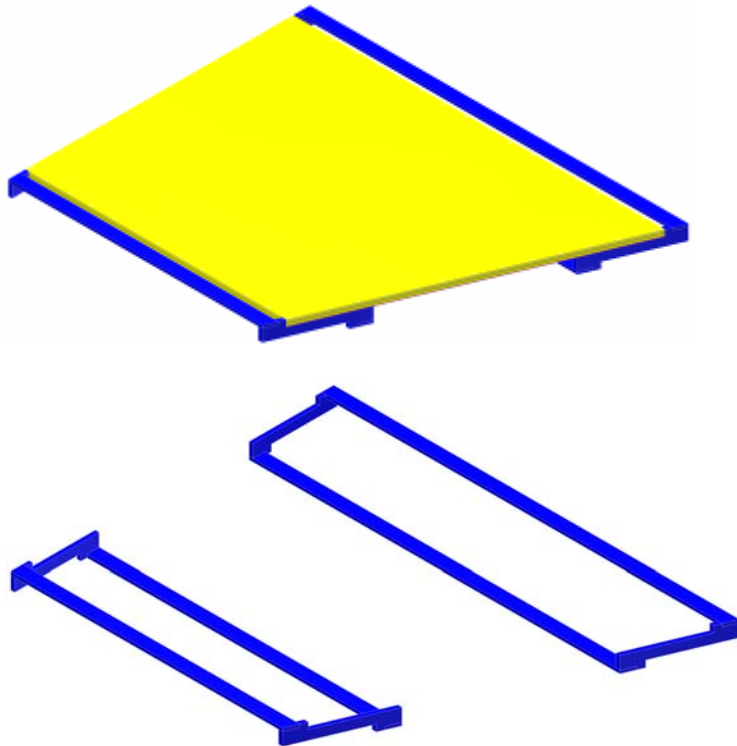
# Support Structure



# Support Structure

Advantages of this “S” support structure

- It allows the modules to be secured without drilling into modules



Modules are pushed up against the C-Channel by the “S” Brace and are locked into place

-No bolts go through the modules, this helps spread any type of torque or force placed on the modules

# Other Work

- Clean Out Container: Material is evaluated. Clean out and dispose by end of Nov.
- Procedure review - pick up where we left off
- VTX/FVTX projects: beampipe upgrade project, prototype test support
- NCC - Richie supporting Eduoard design modifications
- New Crane: safety review to support acquisition and installation next summer



1. Training: Should all techs get film badges?? All techs should have RAD worker training. RPC installations in tunnel will require it.

2. From CAD Safety:

We should review OPM 2.35, Snow Removal at

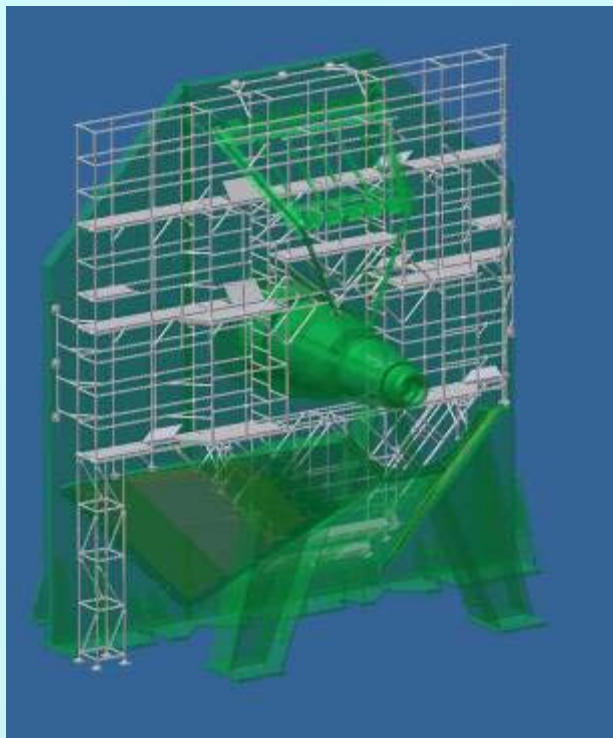
<http://www.rhichome.bnl.gov/AGS/Accel/SND/OPM/Ch02/02-35.PDF>

to see the protocol on which buildings get priority in snow removal and how you call MCR to get other areas on the snow removal priority list. Note that the table in Attachment 8.1 to this OPM is being revised and will be issued shortly. PHENIX (1008) is a high priority during snow emergencies.

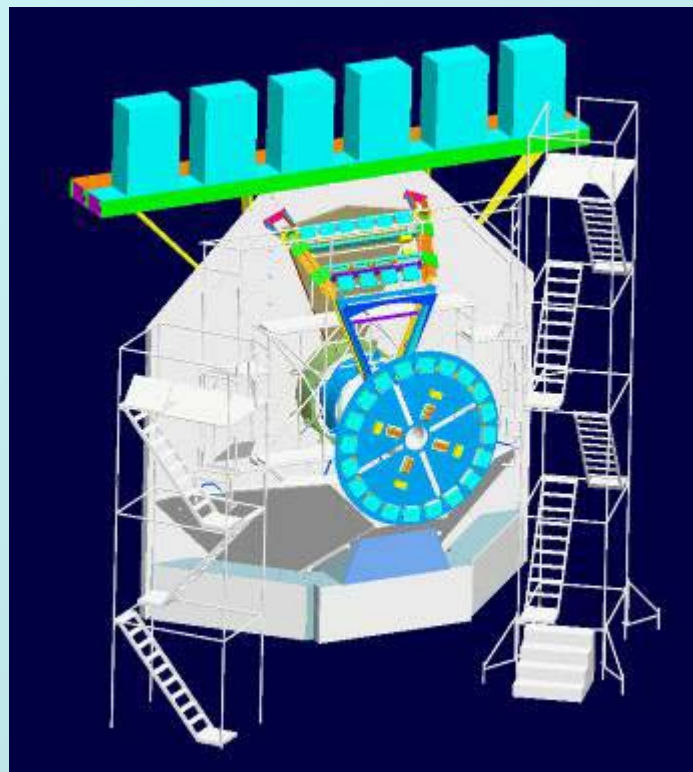
3. CAD Safety Notice: CR123-type lithium batteries used in flashlights at other DOE facilities have overheated, exploded, and even caused fires. The quality of some of these batteries is suspect and may have caused or contributed to these events.

# Station 1 , 2, 3 access plan

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Richie is working on the North scaffolding first.





- Less than 6 months away
- 2 half-octants of RPC's, 1 each in sta 2 & 3 South (will need installation fixtures, gas supplies, electronics support, etc.)
- Install 1 octant of Cu absorber
- "new" scaffolding for sta 1 and 2 North
- New crane in CM
- MuTr decapacitations
- New platforms for MUTrgr FEE Racks
- Reinstall HBD ???????
- Tunnel infrastructure modifications to accommodate RPC's

# 5 Year Plan

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- 2008 Install stations 1& 2 of MuTr FEE upgrades (north), 1 octant Cu absorber (S), 2 half otants RPC2/3 S, infrastructure upgrades & repairs, misc. subsystem work, MMN scaffolding
  - 2009 Scaffolding in MMS, MuTr FEE N stn. 1,2 & 3, MuTr N&S stn. 1,2 & 3 repairs, RPC2 N, RPC3 N, north Cu absorbers, infrastructure upgrades & repairs, misc. subsystem work
  - 2010 Remove HBD & RXNP, remove beampipe, DC West upgrade, VTX barrel, south Cu absorber completed, MuTr FEE stn. 3 S, MuTr stn. 1, 2 & 3 S repairs, infrastructure upgrades & repairs, misc. subsystem work
  - 2011 RPC1 N&S, NCC S, FVTX, infrastructure upgrades & repairs, misc. subsystem work, remove south absorber
  - 2012 NCC N, upgrades contingency & wishlist, infrastructure upgrades & repairs, misc. subsystem work, remove north absorber

*\* Years refer to the shutdown year and follow the run with the similar number (i.e. work in 2008 is to be done in the shutdown that follows run 8, and so on)*

# Where To Find PHENIX Technical Info



*Start of Run Party*



*Tomorrow 12/7*



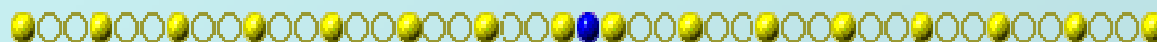
*2:00 PM*



*Counting house*



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)